



THE HEART OF FRESHNESS

COMPACT SCREW COMPRESSORS

APPROVAL CERTIFICATES

SU-170-1

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GERMANISCHER LLOYD

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Approval Certificate

This is to certify, that the undernoted products have been approved in accordance with the relevant requirements of the GL Approval System.

Certificate No.	19 369 - 11 HH							
Company	Bitzer Kühlmaschinenbau GmbH Werk Rottenburg-Ergenzingen Mercedesstraße 24-28 72108 Rottenburg, GERMANY							
Product	Semi-Hermetic Compact Screw Compressor							
Type	CS.65							
Technical Data / Application	<table border="0"> <tr> <td>Application</td> <td>Air Conditioning, Provision Cooling Cargo Refrigeration</td> </tr> <tr> <td>Refrigerant</td> <td>R134a, R407C, R404A, R507A, R22</td> </tr> <tr> <td>M.A.W.P.</td> <td>28 bar</td> </tr> </table>		Application	Air Conditioning, Provision Cooling Cargo Refrigeration	Refrigerant	R134a, R407C, R404A, R507A, R22	M.A.W.P.	28 bar
Application	Air Conditioning, Provision Cooling Cargo Refrigeration							
Refrigerant	R134a, R407C, R404A, R507A, R22							
M.A.W.P.	28 bar							
Casing Material	Spheroidal Graphite							
Screw Rotor Material	EN-GJS-600-3, EN-GJS-500-7, EN-GJS-400-3 (only female rotor)							
Performance- and technical data see manufacturers data sheet Compressors intended for essential services* are to be subjected to a performance test at the manufacturer's works under supervision of GL and are to be presented for final inspection.								
Approval Standard	I-1-2 Seagoing ships - Machinery installations; Edition 2010 I-1-10 Seagoing ships - Refrigerating Installations; Edition 2000							
Documents	Specification: 784_0010 Rev. 09; 784_0035 Rev. 05; 784_0036 Rev. 05; 784_0053 Rev. 02 Dwg No: 361106-020-7 Pressure Relief Valve							
Remarks	* Essential services: Cargo refrigerating installations and liquefaction plants							
Valid until	2016-05-30							
File No.	XI.B.10							

Germanischer Lloyd

Hamburg, 2011-05-27

Hanspeter Raschle Christian Kaemmer

Hanspeter Raschle

Christian Kaemmer

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For application Cargo Refrigeration please contact BITZER before placing an order. An extended product documentation is required.
 For supplied compressors it is not possible to deliver the required extended product documentation subsequently.
 Additional costs for extended product documentation will be charged.

Approval Certificate



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Certificate No.	19 370 - 11 HH	
Company	Bitzer Kühlmaschinenbau GmbH Werk Rottenburg-Ergenzingen Mercedesstraße 24-28 72108 Rottenburg, GERMANY	
Product	Semi-Hermetic Compact Screw Compressor	
Type	CS.75	
Technical Data / Application	Application	Air Conditioning, Provision Cooling Cargo Refrigeration
	Refrigerant M.A.W.P.	R134a, R407C, R404A, R507A, R22 28 bar
	Casing Material Screw Rotor Material	Spheroidal Graphite EN-GJS-600-3, EN-GJS-500-7, EN-GJS-400-3 (only female rotor)
Performance- and technical data see manufacturers data sheet Compressors intended for essential services* are to be subjected to a performance test at the manufacturer's works under supervision of GL and are to be presented for final inspection.		
Approval Standard	I-1-2 Seagoing ships - Machinery installations; Edition 2010 I-1-10 Seagoing ships - Refrigerating Installations; Edition 2000	
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Product	Semi-Hermetic Compact Screw Compressor							
Type	CS.85							
Technical Data / Application	<table border="0"> <tr> <td>Application</td> <td>Air Conditioning, Provision Cooling Cargo Refrigeration</td> </tr> <tr> <td>Refrigerant</td> <td>R134a, R407C, R404A, R507A, R22</td> </tr> <tr> <td>M.A.W.P.</td> <td>28 bar</td> </tr> </table>		Application	Air Conditioning, Provision Cooling Cargo Refrigeration	Refrigerant	R134a, R407C, R404A, R507A, R22	M.A.W.P.	28 bar
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Hamburg, 2011-05-18

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Approval Certificate



This is to certify, that the undernoted products have been approved in accordance with the relevant requirements of the GL Approval System.

Certificate No.	19 288 - 11 HH							
Company	Bitzer Kühlmaschinenbau GmbH Werk Rottenburg-Ergenzingen Mercedesstraße 24-28 72108 Rottenburg, GERMANY							
Product	Semi-Hermetic Compact Screw Compressor							
Type	CS.95							
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Hamburg, 2011-05-18

i.V. Hsg. Paul i.A. Kaemmer

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